



# **Department of Defense US Army Medical Research and Materiel Command**

## ***Fiscal Year 2002 Peer Reviewed Medical Research Program Awards List***

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## **Introduction**

The US Army Medical Research and Materiel Command (USAMRMC) is pleased to present the awards list of funded projects for its fiscal year 2002 (FY02) Peer Reviewed Medical Research Program (PRMRP). The FY02 PRMRP was announced in the Appropriations Conference Committee Report number 107-350, page 394. Conferees provided \$50 million for this program and recommended the following topic areas: Complex rAD-vector vaccine for MGBV (Marburg Virus), chemo-preventative approaches to smoking related illness, childhood asthma, chiropractic care, closed loop frozen blood processing systems, Counter Narcotics Tactical Operations Medical Support Program (CONTOMS), Dengue fever vaccine, high risk infectious disease, medications for fungal and bacterial infections such as Fungi Free, metabolically engineered tissue for trauma care, military nutrition research, Paget's (sic) disease, pre-clinical and clinical activities of the Novonex/Ex-Rad drugs, radiation protection, real-time heart rate variability, self test methods of screening for cervical cancer, smoking cessation, social work research, traumatic brain injury, Volume Angio Cat (VAC) research, and VRE (Vancomycin Resistant Enterococci) research. Proposals were solicited in these topic areas, plus four additional topic areas that were announced in previous PRMRP congressional language: Acute lung injury research, laser eye injury, military relevant disease management, and sleep management.

Following receipt of funds, a programmatic strategy was developed, and proposals were solicited and subjected to a competitive two-tiered review process. In the first tier of review, a peer review panel of scientists evaluated proposals based on their scientific and technical merit. In the second tier of review, the Joint Programmatic Review Panel (JPRP), an advisory panel composed of representatives from the four military services, Department of Defense (DOD)/Health Affairs, Department of Veterans Affairs, and Department of Health and Human Services, recommended proposals for funding based on the peer review panel's recommendations, programmatic priorities, and portfolio balance. The Commanding General of the USAMRMC has final approval authority. Twenty-nine proposals that most effectively addressed the unique focus and goals of the PRMRP were recommended for funding. These projects represent a diverse portfolio of scientific research in the following topic areas: Acute lung injury research, chemo-preventative approaches to smoking related illness, childhood asthma, closed loop frozen blood processing systems, Dengue fever vaccine, high risk infectious disease, laser eye injury, metabolically engineered tissue for trauma care, military nutrition research, military relevant disease management, pre-clinical and clinical activities of the Novonex/Ex-Rad drugs, radiation protection, real-time heart rate variability, sleep management, smoking cessation, social work research, and traumatic brain injury. Due to FY02 cost savings, two proposals submitted to the FY03 PRMRP were funded with FY02 dollars through a fast-track (expedited) two-tiered review procedure. One of these fast-track proposals was partially funded with FY03 PRMRP dollars. Negotiations for all FY02 awards have been completed.

As the funded scientists embark on these projects, the DOD and the US Army gratefully acknowledge the participation of their scientific, clinical, and military advisors. The expertise, vision, and diversity of perspectives of all individuals who contributed to this program were vital to developing a sound investment strategy. It is with great anticipation and excitement that the USAMRMC awaits the outcomes of these projects.

## *Peer Reviewed Medical Research Program Awards*

Log Number	Last Name	First Name	Institution	Proposal Title	Award Amount
PR023002	Gatchel	Robert	University of Texas Southwestern Medical Center	A Randomized Trial of Musculoskeletal Pain Treatment in a Military Population	\$1,561,796
PR023013	Uyehara	Catherine	Tripler Army Medical Center	Effects of Vasopressin on Systemic Organ Perfusion in a Porcine (Sus Scrofa) Model of Vasodilatory Septic Shock	\$353,180
PR023015	Soller	Babs	University of Massachusetts Medical School	Noninvasive Sensor System to Determine Tissue Perfusion and Guide Resuscitation	\$1,109,402
PR023017	Shibata	Yoshimi	East Carolina University	Oral Administration of N-acetyl-D-glucosamine Polymer Particles Down-Regulates Airway Allergic Responses	\$920,999
PR023026	Smith Slep	Amy	State University of New York at Stony Brook	Innovative Surveillance and Risk Reduction Systems for Family Maltreatment, Suicidality, and Substance Problems in the USAF	\$1,553,178
PR023032	Inzana	Thomas	Virginia Tech	Investigation of the Capsule of Francisella Tularensis LVS: Diagnostic and Vaccine Applications	\$1,068,111
PR023039	Hodgdon	James	Naval Health Research Center	Prediction of Body Surface Area Based on 3-Dimensional Laser Scans	\$164,494
PR023041	Robinson	Thomas	Mission Medical, Inc.	Completion of the Development of an Advanced Closed-Loop Frozen Blood Processing System	\$1,499,916
PR023050	Sastre	Antonio	Midwest Research Institute	Practical Implementations of Real-Time Heart Rate Variability	\$891,141
PR023052	Bourguet	Claire	Northeastern Ohio University College of Medicine	Prevalence and Outcomes of Restless Legs Syndrome among Veterans	\$640,572
PR023059	Harmon	John	Johns Hopkins University	A Bioengineered Gene Therapy System with Potential to Heal War Wounds	\$340,355
PR023063	Bray	Robert	Research Triangle Institute	Tobacco Initiation and Cessation among New Soldiers	\$2,192,298
PR023068	Kumar	K. Sree	Armed Forces Radiobiology Research Institute	Radiation Protection by Alpha-Tocopherol Succinate: Molecular, Cellular, and Animal Studies	\$881,091
PR023069	Deuster	Patricia	Uniformed Services University of the Health Sciences	Physiologic and Endocrine Correlates of Overweight and Obesity in African Americans and Caucasians	\$1,558,944
PR023078	Burgess	Timothy	Naval Medical Research Center	Development of a Swine Immunogenicity Model for Dengue Virus Vaccine Testing	\$1,079,876
PR023081	Guisseppi-Elie	Anthony	Virginia Commonwealth University	Feasibility Studies in Development of a Temporary Implantable Lactate Sensor Biochip for Monitoring during Hemorrhage	\$2,849,627
PR023084	Warden	Deborah	Walter Reed Army Medical Center	A Randomized, Placebo-Controlled Trial of Citalopram for Anxiety Disorders following Traumatic Brain Injury	\$2,486,224

Log Number	Last Name	First Name	Institution	Proposal Title	Award Amount
PR023085	Friedman	Joel	Albert Einstein College of Medicine	PEGylated Hb-Oxygen Carrying Plasma Expanders: Synthesis, Evaluation, and Storages	\$2,933,914
PR023087	Johnson	Thomas	Uniformed Services University of the Health Sciences	Triage and Treatment of Laser Eye Injury on the Modern Battlefield	\$1,599,027
PR023088	Seed	Thomas	Armed Forces Radiobiology Research Institute	Research and Development of a Novel, Chemically Engineered Radioprotectant, Novonex/Ex-Rad: Pre-clinical Studies of Novonex/Ex-Rad	\$1,584,656
PR023095	Sahn	David	Oregon Health and Science University	Telemedicine Based Ultrasound for Detecting Neonatal Heart Disease in Babies at Remote Military or Native American Health Care Facilities	\$1,902,417
PR023096	Riscoe	Michael	Veterans Affairs Medical Center	Hemozoin Formation as a Target for Antimalarial Drug Design	\$763,680
PR023102	Cancio	Leopoldo	US Army Institute of Surgical Research	Development and Evaluation of New Products for the Far-Forward Care of Combat Casualties with Acute Lung Injury	\$1,980,400
PR023104	Hakim	Iman	University of Arizona	A Chemoprevention Trial to Study the Effects of High Tea Consumption on Smoking-Related Oxidative Stress	\$1,261,963
PR023109	Hayes	Ronald	University of Florida	Biochemical Markers of Brain Injury: An Integrated Proteomics-Based Approach	\$2,168,431
PR023113	Dischinger	Patricia	University of Maryland, Baltimore	A Multidisciplinary Evaluation of Traumatic Brain Injury: Early Predictors of Outcome	\$1,461,337
PR023118	Lindseth	Glenda	University of North Dakota	Nutritional Effects on Cognition and Flight Performance	\$621,359
PR023128	Horwitz	Marcus	UCLA School of Medicine	Vaccine Strategies for Tularemia	\$1,850,112
PR023130	Tibbetts	Clark	USAF-SGXW, Advanced Technology Innovation Center	DNA Sequenceing of Genomes from Adenovirus Agents Related to Acute Respiratory Disease in Basic Military Trainees	\$506,500
PR033045	Shapiro	Irving	Thomas Jefferson University	Orthopaedic Implants Engineered to Prevent Postoperative Infection of Open Fractures	\$2,729,639
PR033398	Reddy	Sakamuri	University of Pittsburgh	Measles Virus Nucleocapsid Gene Expression and RANK Receptor Signaling in Osteoclast Precursors: Osteoclast Inhibitory Peptide Therapy for Paget's Disease	\$1,045,662

## FY02 Peer Reviewed Medical Research Program Peer Reviewers

Peer Reviewers	Degree	Institution/Affiliation
Alexander, Dale	Ph.D.	University of Houston
Alexis, Neil	Ph.D., M.H.Sc.	University of North Carolina at Chapel Hill
Antaki, James	Ph.D.	University of Pittsburgh
Aucar, John	M.D.	University of Missouri, Columbia
Ayala, Alfred	Ph.D.	Rhode Island Hospital
Azad, Abdu	Ph.D.	University of Maryland School of Medicine
Barbee, R. Wayne	Ph.D.	Virginia Commonwealth University
Barrett, Alan	Ph.D.	University of Texas Medical Branch
Baust, John	Ph.D.	Institute of Biomedical Technology, SUNY
Bergeron, Michael	Ph.D.	Medical College of Georgia
Bonnet, Michael	Ph.D.	
Bottenstein, Jane	Ph.D.	University of Texas Galveston
Brodell, Robert	M.D.	Northeastern Ohio Universities Medical College
Bruttig, Stephen	Ph.D.	Novel Technologies Incorporated
Chambers, Thomas	M.D.	St. Louis University Health Sciences Center
Cherwonogrodzky, John	Ph.D.	Defence Research and Development Suffield (DRDC-Suffield)
Chu, Hong Wei	M.D.	National Jewish Medical and Research Center
Crystal, Ronald	M.D.	Weill Medical College of Cornell University
Davis, Alan	Ph.D.	Baylor College of Medicine
Dean, David	Ph.D.	Northwestern University
DeBon, Maggie	Ph.D.	University of Tennessee, Memphis
Enoch, Jay	Ph.D.	University of California at Berkeley
Epstein, Maxine	Ph.D.	University of Houston

Peer Reviewers	Degree	Institution/Affiliation
Erdman, Dean	Ph.D.	Centers for Disease Control and Prevention
Farace, Elana	Ph.D.	University of Virginia
Finkelstein, Joseph	M.D., Ph.D.	Boston University School of Medicine
Gay, Spencer	M.D.	University of Virginia
Glickman, Randolph	Ph.D.	University of Texas Health Science Center
Gravenstein, Joachim	M.D.	University of Florida College of Medicine
Greenberger, Joel	M.D.	University of Pittsburgh Medical Center
Gregory, Kenton	M.D.	Providence St. Vincent Medical Center
Harris, Susan	D.Sc.	New England Research Institutes
Hay, Iain	Ph.D.	State University of New York at Buffalo
Heitman, Joseph	M.D., Ph.D.	Duke University Medical Center
Hicks, Ramona	Ph.D.	University of Washington
Holden, William	M.D.	Oregon Health Sciences University
Holland, Martin	M.D.	San Francisco General Hospital
Horowitz, Michael	M.D.	University of Pittsburgh
Houle, John	Ph.D.	University of Arkansas for Medical Sciences
Jennings, J. Richard	Ph.D.	University of Pittsburgh
Kajon, Adriana	Ph.D.	Lovelace Respiratory Research Institute
Kayumov, Leonid	Ph.D.	University Health Network, Toronto Western Hospital
Kennedy, Richard	Ph.D.	University of Arkansas for Medical Sciences
Kesner, Raymond	Ph.D.	University of Utah
Kramer, George	Ph.D.	University of Texas Medical Branch
Krawiec, Marzena	M.D.	University of Wisconsin Hospital and Clinics
Kristal, Alan	Ph.D.	Fred Hutchinson Cancer Research Center/University of Washington

Peer Reviewers	Degree	Institution/Affiliation
Krupinski, Elizabeth	Ph.D.	University of Arizona Health Sciences Center
Lindsley, Gila	Ph.D.	Sleep Well
Lobo, Cheryl-Ann	Ph.D.	Lindsley F. Kimball Research Institute
Lopez-Ribot, Jose	Pharm.D., Ph.D.	University of Texas Health Science Center at San Antonio
Loring, Stephen	M.D.	Harvard University
Lue, Yvonne	Ph.D.	Quest Diagnostics, Inc.
Lyeth, Bruce	Ph.D.	University of California, Davis
Mahowald, Mark	M.D.	Hennepin County Medical Center
Mahy, Brian	Sc.D., Ph.D.	Centers for Disease Control and Prevention
Malinoski, Frank	M.D., Ph.D.	Wyeth Pharmaceuticals
Martin, James	Ph.D.	Bryn Mawr College
Matalon, Sadis	Ph.D.	University of Alabama at Birmingham
McIntyre, Thomas	Ph.D.	University of Utah
Mertz, Patricia	M.D.	University of Miami School of Medicine
Middaugh, Susan	Ph.D.	Medical University of South Carolina
Millard-Stafford, Melinda	Ph.D.	Georgia Institute of Technology
Mitler, Merrill	Ph.D.	The Scripps Research Institute
Moline, Margaret	Ph.D.	New York Presbyterian Hospital
Ning, Ruola	Ph.D.	University of Rochester Medical Center
Okifuji, Akiko	Ph.D.	University of Utah, Pain Research and Management Center
Phillips, Barbara	M.D., M.S.P.H.	
Poston II, Walker	Ph.D.	University of Missouri, Kansas City
Povlishock, John	Ph.D.	Virginia Commonwealth University, Medical College of Virginia
Regensteiner, Judith	Ph.D.	University of Colorado School of Medicine

Peer Reviewers	Degree	Institution/Affiliation
Ricker, Joseph	Ph.D., ABPP (CN, RP)	University of Pittsburgh
Rowe, Arthur	Ph.D.	New York University School of Medicine
Rumpler, William	Ph.D.	Beltsville, Human Nutrition Research Center, ARS, USDA
Salas, Eduardo	Ph.D.	University of Central Florida
Satoh, Paul	Ph.D.	Neogen Corporation
Scheff, Stephen	Ph.D.	University of Kentucky
Schmaling, Karen	Ph.D.	University of Texas at El Paso
Schmidt, Paul	M.D.	Florida Blood Services, Inc.
Schuster, Daniel	Ph.D.	Washington University in St. Louis
Schwade, Nathan	Ph.D.	University of Texas Southwestern Medical Center at Dallas
Sclar, David	Ph.D.	Washington State University
Seale, James	Ph.D.	Beltsville, Human Nutrition Research Center, ARS, USDA
Shah, Keerti	Ph.D.	Johns Hopkins University
Sharkey, Neil	Ph.D.	Pennsylvania State University
Sheldon, Robert	M.D.	University of Calgary, Cardiovascular Research Group
Sigdestad, Curtis	Ph.D.	James Graham Brown Cancer Center
Sinson, Grant	M.D.	Medical College of Wisconsin
Smith, William	D. Eng., P.E.	Lerner Research Institute
Stein, Phyllis	Ph.D.	Washington University School of Medicine
Stokely, Ernest	Ph.D.	University of Alabama at Birmingham
Stratton, Steven	Ph.D.	University of Arizona
Turrens, Julio	Ph.D.	University of South Alabama
Tuthill, David	D.V.M.	Kent State University
Unger, Elizabeth	M.D., Ph.D.	Centers for Disease Control and Prevention



Peer Reviewers	Degree	Institution/Affiliation
Vannier, Michael	M.D.	University of Iowa Hospital
Viscidi, Raphael	M.D.	The Johns Hopkins Hospital
Vrana, Kent	Ph.D.	Wake Forest University School of Medicine
Winn, Robert	Ph.D.	Harborview Medical Center/University of Washington
Witten, Mark	Ph.D.	University of Arizona College of Medicine
Wolfenbarger, Lloyd	Ph.D.	LifeNet
Wright, George	Ph.D.	G. Wright Consulting Inc.
Wyatt, James	Ph.D.	Rush-Presbyterian-St. Luke's Medical Center
Yang, Keyi	M.D., Ph.D.	Baylor College of Medicine
Zamorano, Lucia	M.D.	Wayne State University Karmanos Cancer Institute
Zelikoff, Judith	Ph.D.	New York University School of Medicine

**Fiscal Year 2002 Peer Reviewed Medical Research Program  
Joint Programmatic Review Panel (JPRP) Members**

<b>JPRP Members</b>	<b>Degree/ Rank</b>	<b>Institution/Affiliation</b>
Cirone, Salvatore	D.V.M, M.P.V.M.	Office of the Assistant Secretary of Defense for Health Affairs (ASD[HA])
Cuccherini, Brenda	Ph.D., M.P.H.	Department of Veterans Affairs
DaCorta, Joseph	LCDR	US Marine Corps
Forcino, Douglas (Alternate Chair)	CDR	US Navy
Friedrichs, Paul	Maj	US Air Force
Gibson, Roger	Lt Col	Office of the Assistant Secretary of Defense for Health Affairs (ASD[HA])
Gramzinski, Robert	LCDR	US Navy
Haberberger, Richard	CAPT	US Navy
Holtzmuller, Kent	LTC	US Army
Lamiell, James	COL	US Army
Lane, Edward (Chair)	CAPT	US Navy
LeBlanc, Randal	LCDR	US Navy
McNeilly, Patrick	CDR	Department of Health and Human Services
Nunes, Mark	Maj	US Air Force
Petrucelli, Bruno	LTC (P)	US Army
Robinson, Donnamaria	Maj	US Air Force

**Fiscal Year 2002 Peer Reviewed Medical Research Program  
Subject Matter Expert (SME) Members**

<b>SME Members</b>	<b>Degree/ Rank</b>	<b>Institution/Affiliation</b>
Bauman, Wendall	Col	Brook Army Medical Center, Fort Sam Houston
Blakely, William	Ph.D.	Armed Forces Radiobiology Research Institute
Clyburn, Conrad		Telemedicine and Advanced Technology Research Center
Friedl, Karl	LTC	Operational Medicine, USAMRMC
Lightner, Lawrence	Ph.D.	Military Infectious Disease Research Program, USAMRMC
Ling, Geoffrey S.	LTC	Uniformed Services University of the Health Sciences
Michael, Rodney	M.D.	Military Infectious Disease Research Program, USAMRMC
Moore, Katherine	Ph.D.	Congressionally Directed Medical Research Programs
Myers, Janet	LCDR	Bethesda Naval Medical Hospital
Paddock, Jeffrey	Col	Mental Health Flight, Travis Air Force Base
Wesensten, Nancy	Ph.D.	Walter Reed Army Institute of Research
Wilson, Paul	Maj	Air Force Medical Operations Agency, Office of the Surgeon General